

Exhibit 1

MatWeb.com, The Online Materials Database**PolyOne Geon® 87350 Vinyl Compound - Rigid (RPVC)****Subcategory:** Polymer; Thermoplastic; Vinyl**Material Notes:****Description/Features:**

- Exterior-Weatherable
- UL 94 V0
- UL 94 5VA

Applications:

- General Purpose

Processing Method:

- Extrusion-Sheet

PolyOne First Choice**Disclaimer:** Note: The Cell Classification was determined using the notched Izod test with injection molded samples.**Information provided by PolyOne Corporation.**

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	0.052 lb/in ³	ASTM D792
Mechanical Properties			
Hardness, Shore D	82.2	82.2	15 sec; ASTM D2240
Tensile Strength, Yield	43.4 MPa	6290 psi	Type 1 - Rigid, 0.2 in/min; ASTM D638
Tensile Modulus	2.48 GPa	360 ksi	Type 1 - Rigid, 0.2 in/min; ASTM D638

Flexural Modulus	0.0689 GPa	10 ksi	ASTM D790
Flexural Strength	2450 MPa	355000 psi	ASTM D790
Dart Drop, Total Energy	0.12 ft-lb/mil	0.12 ft-lb/mil	Procedure A, 0.125 in Conical Dart, 73°F (23°C); ASTM D4226
Dart Drop, Total Energy	0.24 ft-lb/mil	0.24 ft-lb/mil	Procedure B, 0.125 in Conical Dart, 73°F (23°C); ASTM D4226
Izod Impact, Notched	6.3 J/cm	11.8 ft-lb/in	Method A, Injection Molded, 0.125 in bars, 73°F (23°C); ASTM D256
Izod Impact, Notched	7.21 J/cm	13.5 ft-lb/in	Method A, With Grain - Comp. Molded, 0.125 in bars, 73°F (23°C); ASTM D256
Izod Impact, Notched	8.76 J/cm	16.4 ft-lb/in	Method A, Against Grain - Comp. Molded, 0.125 in bars, 73°F (23°C); ASTM D256

Thermal Properties

CTE, linear 68°F	72.9 $\mu\text{m/m}^{-\text{°C}}$	40.5 $\mu\text{in/in}^{-\text{°F}}$	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	67.8 °C	154 °F	Unannealed, 0.125 in bars; ASTM D648
Flammability, UL94	V-0	V-0	All Colors; 0.035 in.
Flammability, UL94	V-0	V-0	5VA, All Colors; 0.118 in.

Processing Properties

Melt Temperature	188 - 204 °C	370 - 400 °F	Extrusion
------------------	--------------	--------------	-----------

Descriptive Properties

Cell Classification D1784	15343	ASTM D1784
Cell Classification D4216	14133223	ASTM D4216

Copyright 1996-2004 by Automation Creations, Inc. The information provided by MatWeb is intended for personal, non-commercial use. The contents, results, and technical data from this site may not be reproduced either electronically, photographically or substantively without permission from Automation Creations, Inc. No warranty, neither expressed nor implied, is given regarding the accuracy of this information. The user assumes all risk and liability in connection with the use of information from MatWeb.